

Disabling TLS 1.0 & 1.1 Notice

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WHAT IS TLS?

TLS stands for “Transport Layer Security.” It is a protocol that provides privacy and data integrity between two separate systems, such as the web browser on a PC and OCCRRA systems. It’s the most widely deployed security protocol used today, ensuring that sensitive data is secured with encryption from the user’s computer, over the world wide web and to the target service.

WHAT DOES THE CHANGE ENTAIL?

OCCRRA cloud infrastructure will be disabling all protocols lower than the recommended TLS 1.2 version. This is to ensure that all customer connections to OCCRRA services use industry standard security controls to protect data in transit over the Internet.

HOW WILL CUSTOMERS BE IMPACTED?

After disabling all protocols lower than TLS 1.2, some users of the Ohio Professional Registry will not be able to communicate to the OCCRRA cloud infrastructure.

HOW CAN CUSTOMERS DETERMINE IF THEY ARE AFFECTED?

Customers can determine if they are affected with the SSL Client Test tool from Qualys, using their web browser:

<https://www.ssllabs.com/ssltest/viewMyClient.html>

Having opened the above website, the test will automatically begin. The following image represents results of a test that shows a computer and its browser being compatible with TLS 1.2.

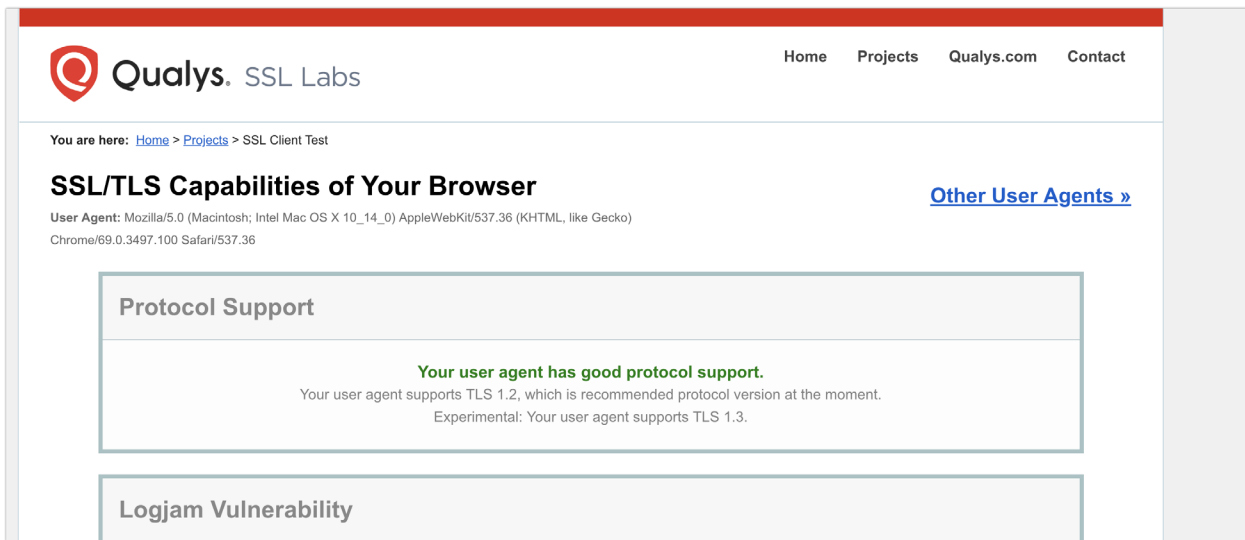


Figure 1

In the event that the test fails, the user should expect to see the following:



Figure 2

Below is a table showing TLS 1.2 compatibility combinations of Windows and Internet Explorer web browsers:

User agent	TLS 1.2
IE 6 / XP	No
IE 7 / Vista	No
IE 8 / XP	No
IE 8 / Win 7	No
IE 9 / Win 7	No
IE 8-10 / Win 7	No
IE 11 / Win 7	Yes
IE 11 / Win 10 Preview	Yes
IE 11 / Win 8.1	Yes
IE 10 / Win Phone 8.0	No
IE 11 / Win Phone 8.1	Yes
IE 11 / Win Phone 8.1 Update	Yes
IE 11 / Win 10	Yes
Edge 12 / Win 10	Yes
Edge 13 / Win 10	Yes
Edge 15 / Win 10	Yes
Edge 13 / Win Phone 10	Yes

IF AFFECTED, WHAT CAN THEY DO ABOUT IT?

Most users with Windows machines purchased in the last 3-5 years should be compatible. For users that are affected, they have the following remediation options:

For users running Windows XP, they have to upgrade their systems minimally to Windows 7 and recent Chrome / Firefox browsers. Windows 10 is recommended if considering an upgrade of existing hardware. Full list of operating system and browser compatibility is available here:

<https://www.ssllabs.com/ssltest/clients.html>

WHEN IS THE CHANGE PLANNED?

The Ohio Professional Registry will implement these changes January 1, 2019. Once you have tested your system, and determine it is compatible, there is nothing further. You will be able to access the Registry and the online trainings.